

```
Pirection:
     Properties of Magnitude (1 procety):
Let cott and UE TR
1 CUI = 161.10 committee of u
  0=161101=10.01=161:50
        10120 if and only if 000
Defo: the direction of the vector of is the associated unil vector
          direction of it is ist. I when it sid
   Claimit is a unit vector
       Point: Components are important to algebra of vectors
      In IR? there are 3 special vactors, called the component vectors:
           \frac{1}{1} = \langle 1, 0, 0 \rangle
\frac{1}{1} = \langle 0, 1, 0 \rangle should besis of \mathbb{R}^3
\frac{1}{1} = \langle 0, 0, 1 \rangle
  Every vector is a sum of scalar multiples of components vectors \theta = \langle u, u_2, u_3 \rangle
                           = < 0,0,02+(0,0,0)+(0,0,0)
                           = U, <1,0,0>+ U, <9,1,0>+ U, <0,0,1>
                            = U, T+ U3T+ U3 R
```